

Product datasheet for MR205976

2410091C18Rik (BC108350) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	2410091C18Rik (BC108350) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	2410091C18Rik
Synonyms:	2410091C18Rik; AL033374; PRO1853
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205976 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAATGCTTTGGTGAGACGCTGCGTGGCCGCGCGGCCCTTCCCTGTATTTGGAGAGGAAATGCTACA
 GCTCCGGGAATGAGCCGGCAGAAAGCAACCAGGTGACACCGATGCTGCGGCATCTTATGTACAAAATAAA
 GTCTACAGGTCCCATCACTGTGGCCGAGTACATGAAGGAGGTTTTGACTAACCCAGCCAAGGATATTAT
 GTGCATCAGGATATGCTAGGAGAAAAAGGAGACTTTATTACTTCACCTGAAATAAGCCAAATCTTCGGGG
 AGCTACTAGGGGTGTGGTTTGTAGTGAATGGATAGCCTCTGGAAAAAGCCAGCATTCCAGCTGGTGGA
 ACTTGGCCCTGGTCGGGGCACCTCACAGCAGATATTTTGAGGGTGTTCAGTCAGCTTGGGTCTGTGCTA
 AAAACCTGTGCCATCTCAATACACCTTGTAGAGGTGAGCCAGAACTAAGTGAGATCCAAGCACTGACAC
 TGGCTGAGGAGAAGGTCCCATTGGAGAGAGACGCTGAATCCCTGGTGTACATGAAAGGTGTCACAAAGTC
 TGGGATTCCAATCTCCTGGTACCGAGACCTGAAGGATGTTCTGAAGGATACAGCTTGTACCTCGCCCAT
 GAGTTTTTTGATGTTCTTCTGTGCATAAATTTAGAAAAACCCACGCGGATGGAGAGAAGTGTTTGTG
 ATGTTGATCCACAAGCTTCTGATAAACTGAGGTTCTGCTTGGCGCCTTGTGCGACCCCTGCAGAACCTT
 CATTCAACGTGATGAAAGGAGGGAACATGTGGAAGTATGTCCCGATGCTGGGTTATCATCCAGGAAGTG
 TCCAGCGCATTGCGTCAACTGGAGGTGCAGCCCTGATTGCGGATTACGGTCACGATGGCAGAAAGACAG
 ACACCTTGAGAGGGTTTTATGGACACCAGCTTCACGATGTCTTAATCGCTCCTGGAACAGCAGACCTGAC
 AGCTGATGTGGACTTCAGTTACCTGCACAGAATGGCACAAGGAAAAAGTAGCCTCTCTGGGTCCAGTGGA
 CAGCGAACATTTTTAAAAACATGGGCATTGATGTCCGGCTGAAGGTAGTGGTTTATCTCAGTAACACTA
 AACCTCTTAATTCGGAATTATTTAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR205976 protein sequence
Red=Cloning site Green=Tags(s)

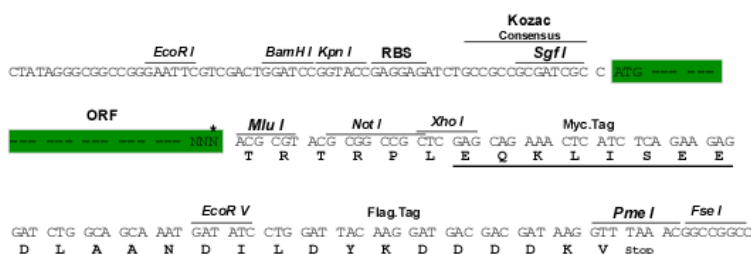
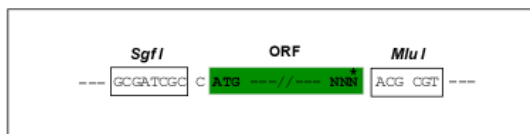
MNALVRRCVARAGLPCIIWRGKCYSSGNEPAESNQVTPMLRHLMYKIKSTGPITVAEYMKEVLTPNAKGYY
 VHQDMLGEKGDFITSPEISQIFGELLGVWFVSEWIASGKSPAFQLVELGPGRGTLTADILRVFSQLGSVL
 KTCASISHLVEVSQKLEIQUALTAAEEKVPLERDAESLYVMKGVTKSGIPISWYRDLKDVPEGYSLYLAH
 EFFDVLVPHKFQKTPRGWREVFVDVDPQASDKLRFVLAPCATPAEAFIQRDERREHVEVCPDAGVIIQEL
 SQRIASTGMAIDLYGDHGTKTDTLRGFYGHQLHDVL IAPGTADLTADVDFSYLHRMAQGVKVASLPVPE
 ORTEFLKNGGIDVRLKVVVYL SNTKPLNFGNYLN

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC108350

ORF Size: 1149 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC108350](#), [AAI08351](#)

RefSeq Size: 2640 bp

RefSeq ORF: 1151 bp

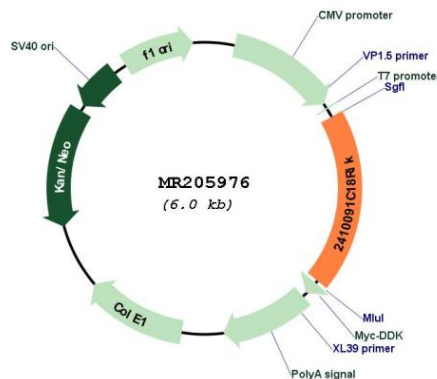
Locus ID: 73694

Cytogenetics: 17 E3

MW: 42.5 kDa

Gene Summary: Arginine methyltransferase involved in the assembly or stability of mitochondrial NADH:ubiquinone oxidoreductase complex (complex I). Acts by mediating symmetric dimethylation of 'Arg-118' of NDUF52 after it assembles into the complex I, stabilizing the early intermediate complex.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205976